

**EVERYTHING 4 LESS**



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# Replacement Parts

| Symbol                | Description                                                                              | Part No. |
|-----------------------|------------------------------------------------------------------------------------------|----------|
|                       | Battery, Eveready CH 1.8 or equivalent<br>(ea. battery is rated at 1.25 V, 1.8 amp-hrs.) |          |
|                       | Fuse 1/4 A, 250V 3AG                                                                     | 1-113835 |
|                       | Fuse Clip                                                                                | 5-117739 |
| C1                    | Capacitor, 3 $\mu$ F $\pm$ 2%, 100V                                                      | 6-111369 |
| C2                    | Capacitor, 33 $\mu$ F $\pm$ 2%, 100V                                                     | 6-111948 |
| C3                    | Capacitor, .033 $\mu$ F $\pm$ 2%, 100V                                                   | 6-111947 |
| C4                    | Capacitor, 3000pF $\pm$ 2.5%, 33V                                                        | 6-111946 |
| C5                    | Capacitor, Variable, 5.5-60pF                                                            | 5-116235 |
| C6                    | Capacitor, 250pF $\pm$ 5%, 100V                                                          | 6-111945 |
| C7, C8                | Capacitor, .01 $\mu$ F $\pm$ 20%, 50V                                                    | 5-117969 |
| C9                    | Capacitor, 1000pF $\pm$ 20%, 1kV                                                         | 1-119959 |
| C10                   | Capacitor, 180pF $\pm$ 10%, 50V                                                          | 6-111944 |
| C11                   | Capacitor, 560pF $\pm$ 20%, 500V                                                         | 5-112695 |
| C12                   | Capacitor, .01 $\mu$ F $\pm$ 20%, 50V                                                    | 5-117969 |
| C13                   | Capacitor, 47 $\mu$ F +50%                                                               |          |
|                       | —10%, 10V                                                                                | 5-118498 |
| C14                   | Capacitor, 1 $\mu$ F +80%                                                                |          |
|                       | —10%, 50V                                                                                | 5-119660 |
| C15, C16,<br>C17, C18 | Capacitor, 220 $\mu$ F +50%                                                              |          |
|                       | —10%, 25V                                                                                | 6-111949 |
| C19, C20              | Capacitor, 22 $\mu$ F +50%                                                               |          |
|                       | —10%, 16V                                                                                | 6-110774 |
| C21                   | Capacitor, .01 $\mu$ F $\pm$ 20%, 50V                                                    | 5-117969 |
| C22                   | Capacitor, 180pF $\pm$ 10%, 50V                                                          | 6-111944 |
| C23                   | Capacitor, .01 $\mu$ F $\pm$ 20%, 50V                                                    | 5-117969 |
| C24                   | Capacitor, 47 $\mu$ F +50%                                                               |          |
|                       | —10%, 10V                                                                                | 5-118498 |
| C25                   | Capacitor, 2200 $\mu$ F +50%                                                             |          |
|                       | —10%, 16V                                                                                | 5-118084 |

# Replacement Parts

| Symbol                                                                                                        | Description                                                                      | Part No.                                                 |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------|
| C26                                                                                                           | Capacitor, 10 $\mu$ F 16V                                                        | 5-118426                                                 |
| C27                                                                                                           | Capacitor, 100 $\mu$ F 10V                                                       | 5-117050                                                 |
| C28                                                                                                           | Capacitor, .022 $\mu$ F $\pm$ 20%, 100V                                          | 5-116188                                                 |
| C29                                                                                                           | Capacitor, 1000pF, 1kV                                                           | 5-111119                                                 |
| C30, C31                                                                                                      | Capacitor, 100 $\mu$ F 20V                                                       | 6-110306                                                 |
| C32                                                                                                           | Capacitor, 47 $\mu$ F +50%                                                       |                                                          |
|                                                                                                               | —10%, 10V                                                                        | 5-118498                                                 |
| D1, D2, D3, D4,<br>D5, D6, D7, D8,<br>D9, D10, D11,<br>D12, D13, D14<br>D16, D17<br>D18, D19, D20<br>D21, D22 | Diode, 1N4148<br>Diode, 1N4002<br>Diode, 1N4148<br>Diode, 1N4001<br>Diode, 1N914 | 5-115214<br>5-113201<br>5-115214<br>5-113200<br>5-112004 |
| Z01                                                                                                           | Zener Diode, 1N5232B                                                             | 6-111413                                                 |
| Z02                                                                                                           | Zener Diode, 1N753A                                                              | 5-112634                                                 |
|                                                                                                               | Rectifier, Full Wave Bridge, W005                                                | 5-115945                                                 |
|                                                                                                               | Light Emitting Diode, MV5025                                                     | 5-116206                                                 |
| IC1                                                                                                           | Integrated Circuit, LM3046N                                                      | 5-119447                                                 |
| IC2                                                                                                           | Integrated Circuit,<br>LM1458N ("A" Version)<br>TL022 ["D" Version]              | 5-117432<br>5-119511                                     |
| IC3                                                                                                           | Integrated Circuit, LM319N                                                       | 6-111950                                                 |
| IC4                                                                                                           | Integrated Circuit, DM7400N                                                      | 5-118317                                                 |
| IC5                                                                                                           | Integrated Circuit, 78L12A                                                       | 6-111110                                                 |
| IC6                                                                                                           | Integrated Circuit, 78L05A                                                       | 6-111951                                                 |
| IC7                                                                                                           | Integrated Circuit,<br>LM1458N ("A" Version)<br>TL022 ["D" Version]              | 5-117432<br>5-119511                                     |
| IC8                                                                                                           | Integrated Circuit, LM3046N                                                      | 5-119447                                                 |
| IC9                                                                                                           | Integrated Circuit, LM741CN                                                      | 5-115928                                                 |

OBSOLETE

# Replacement Parts

| Symbol   | Description                                        | Part No. |
|----------|----------------------------------------------------|----------|
| Q1       | Transistor, 2N4126                                 | 5-116458 |
| Q2       | Transistor, 2N4338                                 | 5-119216 |
| Q3       | Transistor, 2N5828                                 | 5-117065 |
| Q4       | Transistor, 2N4126                                 | 5-116458 |
| Q5       | Transistor, 2N5828                                 | 5-117065 |
| Q6       | Transistor, 2N4126                                 | 5-116458 |
| Q7, Q8   | Transistor, 2N5828                                 | 5-117065 |
| Q9       | Transistor, 2N4121                                 | 5-115939 |
| Q10      | Transistor, 2N5828                                 | 5-117065 |
| Q11      | Transistor, 2N4121                                 | 5-115939 |
| Q13      | Transistor, D40DI                                  | 5-117342 |
| Q14, Q15 | Transistor, GET 2222                               | 5-115934 |
| Q16, Q17 | Transistor, 2N5828                                 | 5-117065 |
| R1       | Resistor, 2K $\pm 5\%$ , $\frac{1}{2}$ W           | 5-119349 |
| R2       | Resistor, 3.9K $\pm 5\%$ , $\frac{1}{4}$ W         | 5-114974 |
| R3       | Resistor, 100 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W | 5-118152 |
| R4       | Resistor, 3.9K $\pm 5\%$ , $\frac{1}{4}$ W         | 5-114974 |
| R5       | Resistor, 2K $\pm 5\%$ , $\frac{1}{4}$ W           | 6-110093 |
| R6, R7   | Resistor, 10K $\pm 5\%$ , $\frac{1}{4}$ W          | 5-118161 |
| R8       | Resistor, 6.8K $\pm 5\%$ , $\frac{1}{4}$ W         | 5-118256 |
| R9       | Resistor, 2K $\pm 1\%$ , $\frac{1}{8}$ W           | 5-115500 |
| R10      | Resistor, 4.87K $\pm 1\%$ , $\frac{1}{8}$ W        | 6-110551 |
| R11      | Resistor, 510K $\pm 5\%$ , $\frac{1}{4}$ W         | 6-110844 |
| R12      | Resistor, 2K $\pm 1\%$ , $\frac{1}{8}$ W           | 5-115500 |
| R13      | Resistor, 2K $\pm 5\%$ , $\frac{1}{4}$ W           | 6-110093 |
| R14      | Resistor, 200 $\Omega$ $\pm 1\%$ , $\frac{1}{8}$ W | 5-119741 |
| R15      | Resistor, 1.96K $\pm 1\%$ , $\frac{1}{8}$ W        | 6-111965 |
| R16      | Resistor, 19.6K $\pm 1\%$ , $\frac{1}{8}$ W        | 5-116504 |
| R17, R18 | Resistor, 10 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W  | 5-119670 |
| R19      | Resistor, 2K $\pm 5\%$ , $\frac{1}{4}$ W           | 6-110093 |
| R20      | Resistor, 56K $\pm 5\%$ , $\frac{1}{4}$ W          | 5-118167 |

# Replacement Parts

| Symbol        | Description                                        | Part No. |
|---------------|----------------------------------------------------|----------|
| R21           | Resistor, 20K $\pm 1\%$ , $\frac{1}{8}$ W          | 5-116621 |
| R22           | Resistor, 1K $\pm 1\%$ , $\frac{1}{8}$ W           | 1-117058 |
| R23           | Resistor, 10K $\pm 5\%$ , $\frac{1}{4}$ W          | 5-118161 |
| R24, R25      | Resistor, 1K $\pm 5\%$ , $\frac{1}{4}$ W           | 5-118155 |
| R26           | Resistor, 200 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W | 5-119740 |
| R27           | Resistor, 1K $\pm 1\%$ , $\frac{1}{8}$ W           | 1-117058 |
| R28           | Resistor, 20K $\pm 1\%$ , $\frac{1}{8}$ W          | 5-116621 |
| R29           | Resistor, 1K $\pm 5\%$ , $\frac{1}{4}$ W           | 5-118155 |
| R30           | Resistor, 510 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W | 5-114965 |
| R31           | Resistor, 10K $\pm 5\%$ , $\frac{1}{4}$ W          | 5-118161 |
| R32           | Resistor, 300 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W | 5-119630 |
| R33           | Resistor, 1K $\pm 5\%$ , $\frac{1}{4}$ W           | 5-118155 |
| R34           | Resistor, 20K $\pm 5\%$ , $\frac{1}{4}$ W          | 5-119645 |
| R35           | Resistor, 1K $\pm 5\%$ , $\frac{1}{4}$ W           | 5-118155 |
| R36           | Resistor, 3.9K $\pm 5\%$ , $\frac{1}{4}$ W         | 5-114974 |
| R37, R38, R39 | Resistor, 100 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W | 5-118152 |
| R40, R41      | Resistor, 20K $\pm 1\%$ , $\frac{1}{8}$ W          | 5-116621 |
| R42           | Resistor, 2K $\pm 1\%$ , $\frac{1}{8}$ W           | 5-115500 |
| R43           | Resistor, 332 $\Omega$ $\pm 1\%$ , $\frac{1}{8}$ W | 5-118047 |
| R44           | Resistor, 750 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W | 5-119760 |
| R45, R46      | Resistor, 1K $\pm 5\%$ , $\frac{1}{4}$ W           | 5-118155 |
| R47           | Resistor, 3.9K $\pm 5\%$ , $\frac{1}{4}$ W         | 5-114974 |
| R48           | Resistor, 300 Ohm $\pm 5\%$ , $\frac{1}{4}$ W      | 5-119620 |
| R49           | Resistor, 100K $\pm 5\%$ , $\frac{1}{4}$ W         | 5-118168 |
| R50           | Resistor, 750 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W | 5-119760 |
| R51           | Resistor, 20K $\pm 5\%$ , $\frac{1}{4}$ W          | 5-119645 |
| R52           | Resistor, 6.8K $\pm 5\%$ , $\frac{1}{4}$ W         | 5-118256 |
| R53           | Resistor, 10 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W  | 5-119670 |
| R54           | Resistor, 200 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W | 5-119740 |
| R55           | Resistor, 10 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W  | 5-119670 |
| R56           | Resistor, 750 $\Omega$ $\pm 5\%$ , $\frac{1}{4}$ W | 5-119760 |

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